

Claims

1. A dispenser for controlled release of volatile substances, comprising a reservoir (1) containing
5 at least one volatile substance (4), characterized in that it comprises a first control element (6) which exerts a control function which is dependent on the physical properties of the at least one
10 volatile substance (4) and the material properties of the constituents of the first control element (6) and a second control element (7) which exerts a control function which is independent of the physical properties of the at least one volatile
15 substance (4) and the material properties of the constituents of the first control element (6).
2. The dispenser of claim 1, characterized in that the first control element (6) is disposed between
20 the reservoir (1) and the second control element (7).
3. The dispenser of claim 1 or 2, characterized in that the second control element (7) is a material comprising gaps (8) which is impermeable to the at
25 least one volatile substance.
4. The dispenser of one or more of claims 1 to 3, characterized in that the reservoir (1) is a
30 cavity.
5. The dispenser of one or more of the preceding claims, characterized in that the reservoir (1) comprises a carrier material (5) which is capable of accommodating a volatile substance (4).
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6. The dispenser of one or more of the preceding claims, characterized in that the reservoir (1) is

flat and has a top face (2) and a bottom face (3).

7. The dispenser of one or more of the preceding claims, characterized in that the carrier material
5 (5) comprises a natural or synthetic polymer.
8. The dispenser of one or more of the preceding claims, characterized in that the carrier material
10 (5) is in fiber, woven, nonwoven, foam, powder, gel, solution or granule form.
9. The dispenser of one or more of the preceding claims, characterized in that the first control
15 element (6) is composed of a material which is permeable to the at least one volatile substance.
10. The dispenser of one or more of the preceding claims, characterized in that the material which
20 is permeable to the at least one volatile substance comprises a natural or synthetic polymer or a blend thereof.
11. The dispenser of one or more of the preceding claims, characterized in that the second control
25 element (7) is in the form of a film and has a thickness of between 50 μm and 2.5 mm.
12. The dispenser of one or more of the preceding claims, characterized in that the gaps (8) in the
30 second control element (7) are tubular, spherical or irregular.
13. The dispenser of one or more of the preceding claims, characterized in that the at least one
35 volatile substance (4) is an active chemical and/or biological substance.
14. The dispenser of one or more of the preceding claims, characterized in that the at least one

volatile substance (4) is a fragrance or fragrance mixture with attractive or repellent action on insects, fish, amphibians, reptiles, birds or mammals.

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15. The dispenser of one or more of the preceding claims, characterized in that the reservoir (1) is covered on its top face (2) and on its bottom face (3) by in each case a first control element (6),
10 which is in turn fully covered in each case by a second control element (7).

16. The use of a dispenser of any one of claims 1 to 15 for releasing a volatile substance (4) to a
15 gaseous, liquid or solid environment.

17. The use of a dispenser of any one of claims 1 to 15 for releasing a volatile substance (4) over a period of at least one hour.